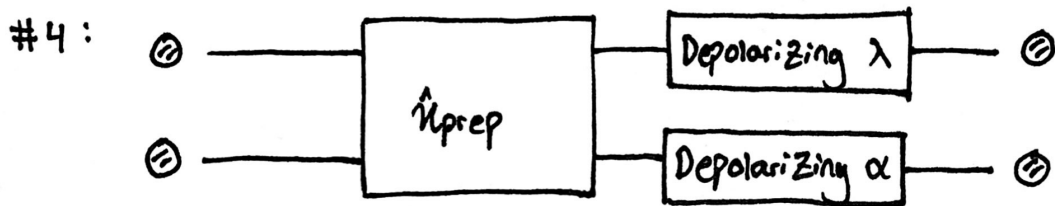


#1: Solve gain inequalities for α and λ



$$\hat{\rho}_F = \frac{(1-\lambda)}{2} \text{Tr}[\hat{\rho}_i] + \lambda \hat{\rho}_i \quad ; \quad \hat{\rho}_i = \frac{1}{2} \begin{pmatrix} 1 & r \\ r & 1 \end{pmatrix}$$



#5: Determine gain for #3 and #4

#6: Solve gain equations for α and λ when $G > 1$

#7: Create plots for #1, #5, #6

